

STN SEARCH TRA NSCRIPT

10/828 466

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 NEWS 2 "Ask CAS" for self-help around the clock
 NEWS 3 New STN Analyst pricing effective March 1, 2006
 NEWS 4 CA/Caplus enhanced with 1900-1906 U.S. patent records
 NEWS 5 KOREXPAT updates resume
 NEWS 6 Derwent World Patents Index to be reloaded and enhanced
 NEWS 7 IPC 8 Rolled-up Core codes added to CA/Caplus and
 NEWS 8 USPATFULL/USPAT2
 NEWS 9 The F-term thesaurus is now available in CA/Caplus
 NEWS 10 The first reclassification of IPC codes now complete in
 NEWS 11 INPADOC
 NEWS 12 TULISA/TULISA2 reloaded and enhanced with new search and
 NEWS 13 display fields
 NEWS 14 Price changes in full-text patent databases EFPULL and PCTFULL
 NEWS 15 CHEMSAFE reloaded and enhanced
 NEWS 16 FSTA enhanced with Japanese patents
 NEWS 17 Coverage of Research Disclosure reinstated in DWPI
 NEWS 18 INSPEC enhanced with 1898-1968 archive
 NEWS 19 ADISCTI Reloaded and Enhanced
 NEWS 20 CA(SM)/Caplus(SM) Austrian patent law changes
 NEWS 21 CA/Caplus fields enhanced with more pre-1907 records
 NEWS 22 truncation
 NEWS 23 CA(SM)/Caplus(SM) display of CA Lexicon enhanced
 NEWS 24 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
 NEWS 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrollysine
 NEWS 26 CEABH-VTB classification code fields reloaded with new
 NEWS 27 classification scheme

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
 MACINTOSH VERSION IS V6.0C(ENG) AND V6.0C(UP),
 AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

NEWS HOURS STN Operating Hours plus Help Desk Availability
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Enter NEWS followed by the item number or name to see news on that
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***** STN Columbus *****

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FILE 'REGISTRY' ENTERED AT 08:38:19 ON 11 OCT 2006
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STRUCTURE FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9
 DICTIONARY FILE UPDATES: 10 OCT 2006 HIGHEST RN 910095-75-9

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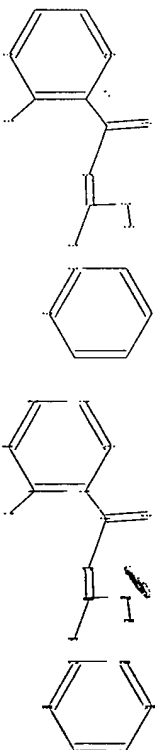
TSQA INFORMATION NOW CURRENT THROUGH June 30, 2006

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=> Uploading C:\Program Files\Stnexp\Queries\SODIUM CHANNEL PYRAZINE 10828329 - #3.str



chain nodes : 7 8 9 10 11 12 13 14

ring nodes : 1 2 3 4 5 6 16 17 18 19 20 21

chain bonds : 5-8 6-7 8-9 8-10 10-11 11-12 11-13

ring bonds : 1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21

exact/norm bonds : 6-7 8-9 8-10 10-11 11-12 11-14

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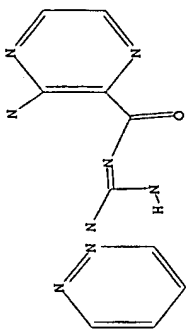
isolated ring systems : containing 1 :

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
 11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:Atom 17:Atom 18:Atom 19:Atom
 20:Atom 21:Atom

L1 STRUCTURE UPLOADED

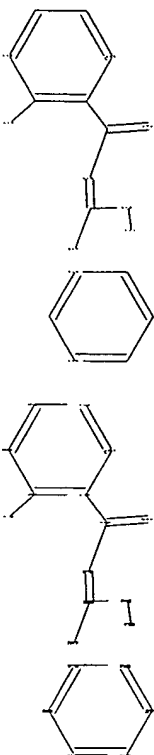
=> D L1
L1 HAS NO ANSWERS
STR



"6" RING IS
1,2-DIAZINE

Structure attributes must be viewed using STN Express query preparation.

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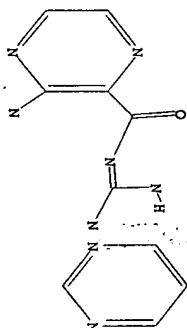


Chain nodes :
7 8 9 10 11 12 13 14
ring nodes :
1 2 3 4 5 6 16 17 18 19 20 21
chain bonds :
5-8 6-7 8-9 8-10 10-11 11-12 11-14 12-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21
exact/norm bonds :
6-7 8-9 8-10 10-11 11-12 11-14
exact bonds :
5-8 12-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom

L2 STRUCTURE UPLOADED

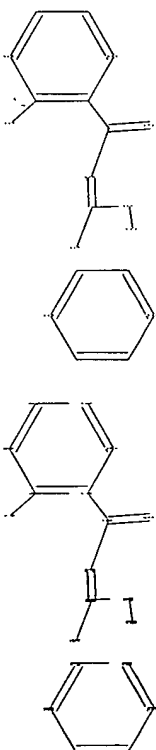
=> D L2
L2 HAS NO ANSWERS
STR



"6" RING IS
1,3-PYRAZINE

Structure attributes must be viewed using STN Express query preparation.

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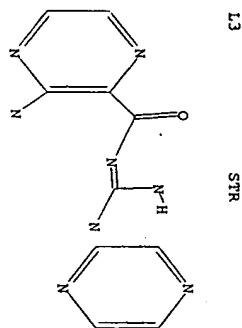


Chain nodes :
7 8 9 10 11 12 13 14
ring nodes :
1 2 3 4 5 6 16 17 18 19 20 21
chain bonds :
5-8 6-7 8-9 8-10 10-11 11-12 11-14 12-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21
exact/norm bonds :
6-7 8-9 8-10 10-11 11-12 11-14
exact bonds :
5-8 12-13
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 16-17 16-21 17-18 18-19 19-20 20-21
isolated ring systems :
containing 1 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS
11:CLASS 12:CLASS 13:CLASS 14:CLASS 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom

L3 STRUCTURE UPLOADED

=> D L3
L3 HAS NO ANSWERS



"6,7-RING IS
1,4-DIAZINE"

SEARCHED ALL THREE

Structure attributes must be viewed using STN Express query preparation.

=> S L1
SAMPLE SEARCH INITIATED 08:39:25 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 0 TO ITERATE
100.0% PROCESSED 0 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 0 TO 0
PROJECTED ANSWERS: 0 TO 0
L4 0 SEA SSS SAM L1
=> S L2
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SAMPLE SCREEN SEARCH COMPLETED - 3 TO ITERATE
100.0% PROCESSED 3 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3 TO 163
PROJECTED ANSWERS: 0 TO 0
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=> S L3
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SEARCH TIME: 00.00.01
FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 3 TO 163
PROJECTED ANSWERS: 2 TO 124
L6 2 SEA SSS SAM L3
=> S L1 SSS FULL
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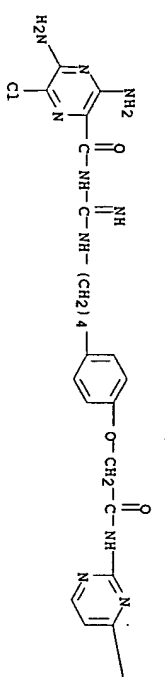
100.0% PROCESSED 12 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01
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=> S L2 SSS FULL
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100.0% PROCESSED 71 ITERATIONS 18 ANSWERS
SEARCH TIME: 00.00.01
L8 18 SEA SSS FULL L2
=> S L3 SSS FULL
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FULL SCREEN SEARCH COMPLETED - 71 TO ITERATE
100.0% PROCESSED 71 ITERATIONS 20 ANSWERS
SEARCH TIME: 00.00.01
L9 20 SEA SSS FULL L3
=> FILE CAPLUS
COST IN U.S. DOLLARS SINCE FILE ENTRY SESSION
FULL ESTIMATED COST 500.82 501.03
FILE 'CAPLUS' ENTERED AT 08:40:08 ON 11 OCT 2006
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=> S L8 OR L9 7 L8
L10 4 L9
11 L8 OR L9
=> D 1-11 IBIB ABS HITSTR
L10 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2005:346797 CAPLUS
DOCUMENT NUMBER: 142:411366
TITLE: Preparation of pyridazinylcarbonyl-substituted ureas used for reducing risk of infection from pathogens
INVENTOR(S): Johnson, Michael R.; Hopkins, Samuel E.

latter was stirred with Et3N and 1-(3,5-diamino-6-chloropyrazine-2-carbonyl)-2-methylisothiourea hydroiodide in EtOH at 65° to give 368 N-(3,5-diamino-6-chloropyrazine-2-carbonyl)-N'-(4-(4-(2-(2,3-dihydroxypropoxy)-2-hydroxypropoxy)phenyl)butyl)guanidine (PSA 15143). The latter showed Na channel blocking activity with EC50 = 7 nM.

IT 847200-87-7P 847200-90-2P 847200-91-3P
RL: PAC (pharmacological activity); SPN (synthetic preparation); THU (therapeutic use); BIOL (biological study); PREP (preparation); USES (uses)

(claimed compound; preparation of aminopyrazinylguanidines as sodium channel blockers)

RN 847200-87-7 CAPLUS
CN Pyrazinecarboxamide, 3,5-diamino-N-((4-(4-(2-(2-(4-amino-2-pyrimidinyl)amino)-2-oxoethoxy)phenyl)butyl)amino)iminoethyl)-6-chloro- (9CI) (CA INDEX NAME)

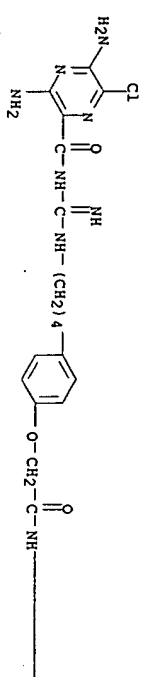


PAGE 1-A

PAGE 1-B

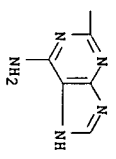
-NH2

RN 847200-90-2 CAPLUS
CN Pyrazinecarboxamide, 3,5-diamino-N-((4-(4-(2-(2-(6-amino-1H-purin-2-yl)amino)-2-oxoethoxy)phenyl)butyl)amino)iminoethyl)-6-chloro- (9CI) (CA INDEX NAME)

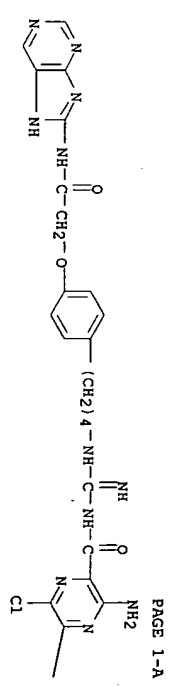


PAGE 1-A

PAGE 1-B



RN 847200-91-3 CAPLUS
CN Pyrazinecarboxamide, 3,5-diamino-6-chloro-N-((4-(4-(2-oxo-2-(1H-purin-8-ylamino)ethoxy)phenyl)butyl)amino)methyl)- (9CI) (CA INDEX NAME)



PAGE 1-A

PAGE 1-B

-NH2

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

I10 ANSWER 3 OF 11 CAPLUS COPYRIGHT 2006 ACS ON STN
ACCESSION NUMBER: 2005:158635 CAPLUS
DOCUMENT NUMBER: 142:261557
TITLE: Preparation of cyclic pyrazinylguanidine sodium channel blockers

INVENTOR(S): Johnson, Michael R.
PATENT ASSIGNEE(S): Parion Sciences, Inc., USA
SOURCE: PCT Int. Appl., 101 pp.
CODEN: PIXXD2

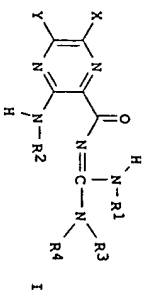
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 4
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005016879	A2	20050224	WO 2004-US26880	20040818
WO 2005016879	A3	20050602		
W: AE, AG, AL, AM, AT, AU, A2, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DG, EC, EE, EG, ES, FI, GB, GD,				

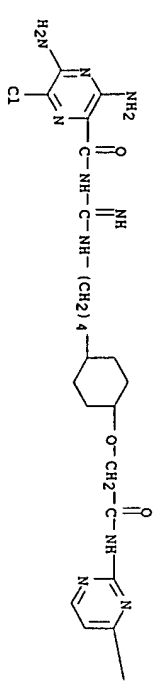
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OTHER SOURCE(S): CASREACT 142:261557; MARPAT 142:261557

PRIORITY APPLN. INFO.: AU 2004264441 AU 2004-264441 20040818
CA 2534569 CA 2004-2534569 20040818
US 2005059676 US 2004-920353 20040818
EP 1670474 EP 2004-801870 20040818
A2 20060621 EP 2004-801870 20040818
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK
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US 2004-920410 A3 20040818
WO 2004-052680 W 20040818



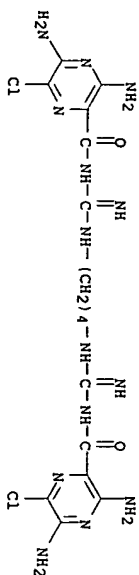
AB The title compds. I [X = halo, etc.; Y = H, hydroxy, etc.; R1 = H, alkyl; R2 = R7, etc.; R3, R4 = H, alkyl, etc.; R7 = (un)substituted Ph, etc], useful as sodium channel blockers (no data), are prepared. Thus, N-(3,5-diamino-6-chloropyrazine-2-carbonyl)-N'-[4-[1-(2-hydroxyethyl)piperidin-4-yl]butyl]guanidine dihydrochloride was prepared in a multistep process starting from 4-(piperidin-4-yl)butyric acid HCl salt. IT R: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (Preparation of cyclic pyrazinylguanidine sodium channel blockers) RN 84573-79-9 CAPLUS 3,5-diamino-N'-[4-[4-(2-amino-2-pyrimidinylamino)-2-oxoethoxy]cyclohexyl]butyl]amino]methyl]-6-chloro- (3Cl) (CA INDEX NAME)



PAGE 1-A

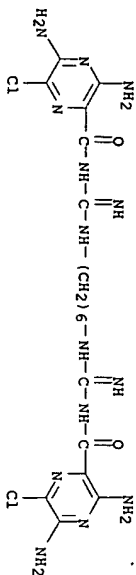
L10 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:63982 CAPLUS
DOCUMENT NUMBER: 134:115971
TITLE: Pyrazinylguanidine derivatives as conjugates of sodium channel blockers and methods of using the same for hydrating mucosal surfaces
INVENTOR(S): Boucher, Richard C., Jr.
PATENT ASSIGNEE(S): University of North Carolina At Chapel Hill, USA
SOURCE: PCT Int. Appl., 48 pp.
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION: THIS IS PRIOR ART

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001005773	A1	20010125	WO 2000-US19775	20000719
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, GR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NA, NZ, NO, NU, NZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UV, UW, UX, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ.				
CA 2378181	AA	20010125	CA 2000-2378181	20000719
EP 1196396	A1	20020417	EP 2000-948820	20000719
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
US 6475509	B1	20021105	US 2000-618978	20000719
NZ 516595	A	20030725	NZ 2000-516595	20000719
JP 2004513870	T2	20040513	JP 2001-511434	20000719
AU 774865	B2	20040708	AU 2000-62262	20000719
ZA 2002000129	A	20030407	ZA 2002-129	20020107
NO 2002000242	A	20020319	NO 2002-242	20020116
US 2002165239	A1	20021107	US 2002-121913	20020412
US 6607741	B2	20030819		
US 2002158255	A1	20030902		
US 6613345	B2	20030902		
PRIORITY APPLN. INFO.:				
MARPAT 134:115971				
OTHER SOURCE(S):				
GI				



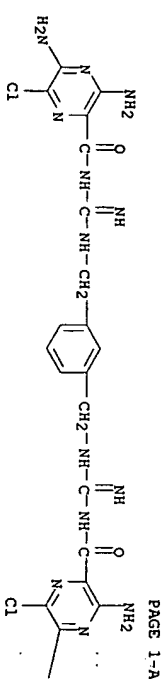
● 2 HBr

RN 321554-69-2 CAPLUS
CN Pyrazinecarboxamide, N,N'-(1,6-hexanediylbis(aminocarbonimidoyl))bis(3,5-diamino-6-chloro-, dihydrobromide (9CI)) (CA INDEX NAME)



● 2 HBr

RN 321554-70-5 CAPLUS
CN Pyrazinecarboxamide, N,N'-(1,3-phenylenebis(methyleneaminocarbonimidoyl))bis(3,5-diamino-6-chloro-, dihydrobromide (9CI)) (CA INDEX NAME)



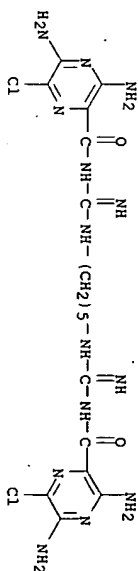
● 2 HBr

PAGE 1-B

— NH₂

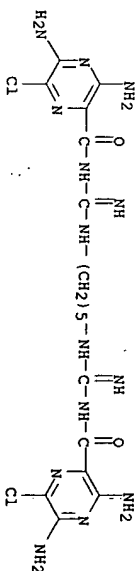
RN 321554-71-6 CAPLUS

CN Pyrazinecarboxamide, N,N'-(1,5-pentanediyibis(aminocarbonimidoyl))bis(3,5-diamino-6-chloro-, dihydrochloride (9CI)) (CA INDEX NAME)



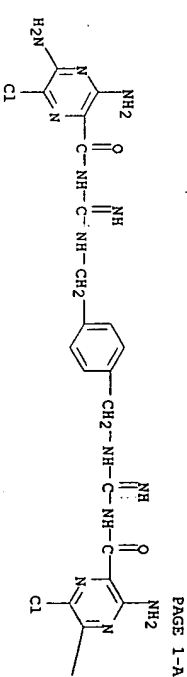
● 2 HCl

RN 321554-72-7 CAPLUS
CN Pyrazinecarboxamide, N,N'-(1,5-pentanediyibis(aminocarbonimidoyl))bis(3,5-diamino-6-chloro-, dihydrobromide (9CI)) (CA INDEX NAME)



● 2 HBr

RN 321554-73-8 CAPLUS
CN Pyrazinecarboxamide, N,N'-(1,4-phenylenebis(methyleneaminocarbonimidoyl))bis(3,5-diamino-6-chloro-, dihydrobromide (9CI)) (CA INDEX NAME)

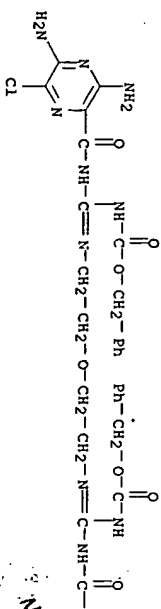


● 2 HBr

PAGE 1-A

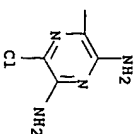
-NH₂

IT 321554-75-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (Preparation of pyrazinoylguanidine deriva. as conjugates of sodium channel
 blockers used for hydration of mucosal surfaces)
 RN 321554-75-0 CAPLUS
 CN 7-Oxa-2,4,10,12-tetraazatricodeca-2,10-dienedioic acid, 3,11-bis[(3,5-
 diamino-6-chloropyrazinyl)carbonyl]amino]-, bis(phenylmethyl) ester (9CI)
 (CA INDEX NAME)



PAGE 1-A

PAGE 1-B



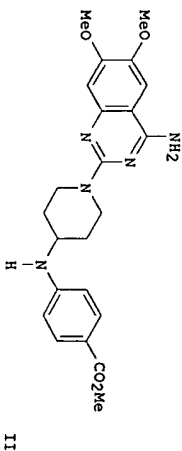
REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L10 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 2000:855763 CAPLUS
 DOCUMENT NUMBER: 134:29423

TITLE: Preparation of [(quinazolinylpiperidinyl)amino]benzoat
 es and analogs as bactericides
 Kung, Pei-Pei; Cook, Phillip Dan; Guinosso, Charles
 John
 Isis Pharmaceuticals, Inc., USA
 U.S., 22 pp.
 SOURCE: CODEN: USXXAM
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6156758	A	20001205	US 1999-391843	19990908
PRIORITY APPLN. INFO.: US 1999-391843				
OTHER SOURCE(S): MARPAT 134:29423				
GI				

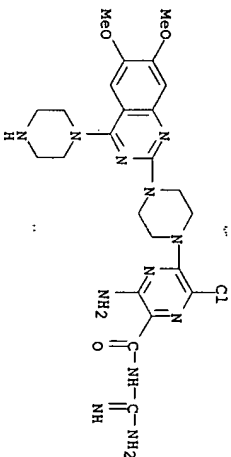


II

AB R2(RR4)NCOZRI [I; R = (un)substituted 2-quinazolinyl; R1 = OH,
 (ar)alkoxy, aryloxy, etc.; R4 = H, alkyl, acyl; Z = piperidine- or
 piperazine-1,4-diyl; Z1 = (un)substituted 1,4-phenylene, -pyridine-2,5- or
 -5,2-diyl, -pyrazine-2,5-diyl; n = 0 or 1] were prepared. Thus, Me
 3-amino-5,6-dichloro-2-pyrazinecarboxylate was condensed with
 1-protected-4-aminopiperidine and the deprotected product condensed with
 4-amino-2-chloro-6,7-dimethoxyquinazoline to give title compound II. Data
 for biol. activity of I were given.

IT

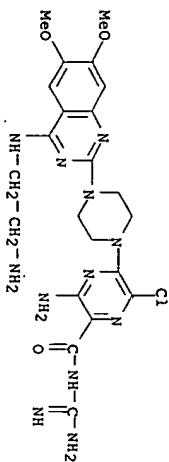
RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);
 BIOL (Biological study); PREP (Preparation); USES (Uses)
 (Preparation of [(quinazolinylpiperidinyl)amino]benzoates and analogs as
 bactericides)
 RN 310901-30-5 CAPLUS
 CN Pyrazinecarboxamide, 3-amino-N-(aminomethyl)-6-chloro-5-[4-(6,7-
 dimethoxy-4-(1-piperazinyl)-2-quinazolinyl]-1-piperazinyl]-,
 dihydrochloride (9CI) (CA INDEX NAME)



● 2 HCl

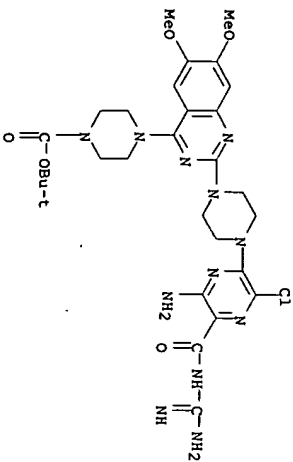
RN 310901-33-8 CAPLUS

CN Pyrazinecarboxamide, 3-amino-5-[(4-{4-[(2-aminoethyl)amino]-6,7-dimethoxy-2-quinazolinyl]-1-piperazinyl}-N-(aminomethyl)-6-chloro-, dihydrochloride (9CI) (CA INDEX NAME)

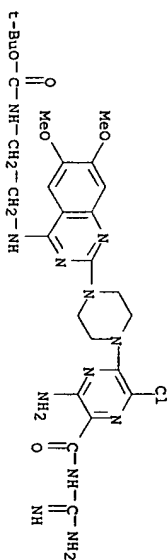


● 2 HCl

IT 310901-41-8P 310901-46-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of [(quinazolinyl)piperidinyl]amino]benzoates and analogs as bactericides)
 RN 310901-41-8 CAPLUS
 CN 1-piperazinecarboxylic acid, 4-[(2-{4-[(6-amino-5-[(aminomethyl)amino]carbonyl]-3-chloropyrazinyl)-1-piperazinyl]-6,7-dimethoxy-4-quinazolinyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



RN 310901-46-3 CAPLUS
 CN Carbanic acid, [2-[(2-{4-[(6-amino-5-[(aminomethyl)amino]carbonyl]-3-chloropyrazinyl)-1-piperazinyl]-6,7-dimethoxy-4-quinazolinyl]amino]ethyl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L10 ANSWER 6 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:789190 CAPLUS
 DOCUMENT NUMBER: 123:198830
 TITLE: Preparation of aminocarbonylpyrazines as drugs.
 INVENTOR(S): Roos, Otto; Speck, Georg; Loesel, Walter; Andts, Dietrich
 PATENT ASSIGNEE(S): Boehringer Ingelheim KG, Germany
 SOURCE: Ger. Offen., 23 pp.
 CODEN: GRXMBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4337609	A1	19950511	DE 1993-4337609	19931104
CA 2175837	AA	19950511	CA 1994-2175837	19941031
WO 9512592	A1	19950511	WO 1994-EP3580	19941031
W: AU, AU, BG, CA, CN, CZ, FI, GE, HU, JP, KR, KZ, LT, LV, NO, NZ, PL, RO, RU, SI, SK, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GN, ML, MR, NE, SN, TD, TG				
AU 9479936	A1	19950523	AU 1994-79936	19941031
AU 690588	B2	19980430		
EP 726899	A1	19960821	EP 1994-931018	19941031
EP 726899	R1	20000119		
R: AT, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
CN 1134151	A	19961023	CN 1994-194016	19941031
JP 09505035	T2	19970520	JP 1994-513010	19941031
AT 188965	E	20000215	AT 1994-931018	19941031
ES 2140565	T3	20000301	ES 1994-931018	19941031
ZA 9408669	A	19950704	ZA 1994-8669	19941031
GR 3033034	T3	20000831	GR 2000-400720	20000322
PRIORITY APPL. INFO:			DE 1993-4337609	19931104
OTHER SOURCE(S):			WO 1994-EP3580	19941031
GI			WARPAT 123:198830	W 19941031

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

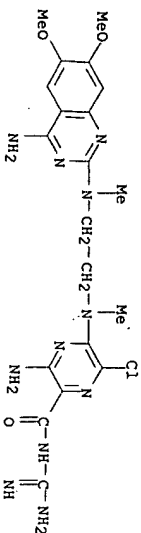
AB Title compds. (I: R1 = H, (hydroxy-substituted, O-interrupted) alkyl, alkenyl, alkynyl, Ph, cycloalkyl, etc.; R2 = Cl, Q2, etc.; R1R2 = Q3, etc.), were prepared as inhibitors of Na+/H+ and Na+/Li+ exchange useful as antihypertensives, antischistosomes, mucolytics, diuretics, anticancer

agents, etc. (no data). Thus, N-(4-amino-6,7-dimethoxy-2-quinazolinyl)-N,N'-dimethyl-1,2-diaminoethane, Me-3-amino-5,6-dichloropyrazine-2-carboxylate, and Et3N were heated in Me2SO at 80° to give a residue which was stirred with guanidine hydrochloride in methanolic NaOMe to give Me-3-amino-6-chloro-5-(2-(4-amino-6,7-dimethoxy-2-quinazolinyl)-1-(N,N'-dimethyl-1,2-diaminoethyl)pyrazine-2-carboxylate. This was refluxed in DMF and the residue was treated with HCl in EtOH to give title compound (II).

IT 167684-27-7P

RU: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); TRU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USDS (Uses)

RN 167684-27-7 CAPLUS
Pyrazinecarboxamide, 3-amino-5-[(2-(4-amino-6,7-dimethoxy-2-quinazolinyl)methylamino)ethyl]amino-N-(aminomethyl)-6-chloro-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

L10 ANSWER 7 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:449413 CAPLUS

DOCUMENT NUMBER: 119:48413

TITLE: New pyrazine derivatives, their preparation and their use as ingredients in drugs

INVENTOR(S): Koeppel, Herbert; Speck, Georg; Stockhaus, Klaus

PATENT ASSIGNEE(S): Boehringer Ingelheim International G.m.b.H., Germany; Boehringer Ingelheim KG

SOURCE: PCT Int. Appl., 37 pp.

DOCUMENT TYPE: CODEN: PIXXD2

LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: 2

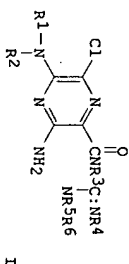
PATENT INFORMATION: German

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9304048	A1	19930304	WO 1992-EP1738	19920731
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KR, RE, LK, LU, MG, MK, MM, NL, NO, PL, RO, RU, SD, SE, US				
RM: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, MC, NL, SE, BF, BT, CF, CG, CI, CM, GN, MT, MR, SN, TD, TG				
DE 4127026	A1	19930218	DE 1991-4127026	19910816
DE 4123046	A1	19930318	DE 1991-4123046	19910913
AU 9223870	A1	19930316	AU 1992-23870	19920731
AU 669122	B2	19960530		
EP 598770	A1	19940601	EP 1992-916697	19920731
EP 598770	B1	19971015		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE				
JP 06509798	T2	19941102	JP 1992-504057	19920731
NO 9400523	A	19940215	NO 1994-523	19940215

PRIORITY APPLN. INFO.: DE 1991-4127026 A 19910816
DE 1991-4130461 A 19910913
WO 1992-EP1738 A 19920731

OTHER SOURCE(S): CASREACT 119:49413; MARPAT 119:49413

GI

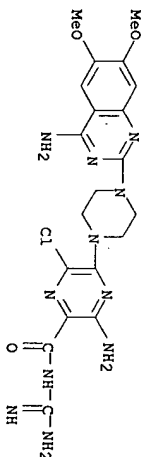


AB A process for the preparation of pyrazine derivative I where R1 = H or alkyl, R2 = functionalized alkyl moiety, R3, R5 = H and R4, R6 = H, Me, Et, Bu, benzyl was accomplished by conventional methods. E.g., reaction of 4.44 g of Me-3-amino-5,6-dichloropyrazine-2-carboxylate and 3.6 g of 2-amino-1-(2,6-dimethylphenoxy)propane with 2.2 g Et3N in 40 mL anhydrous DMF gave an intermediate pyrazinecarboxylic acid ester which underwent subsequent ammonolysis in 50 mL MeOH and 80 mL of methanolic guanidine solution and eluted on silica gel by AcOH:1-PrOH:NH3 eluent to give N-amidino-3-amino-6-chloro-5-(2-[1-(2,6-dimethylphenoxy)]propylamino)pyrazine-2-carboxamide-hydrochloride. The products are suitable for use as active ingredients in drugs (no data).

IT 147894-06-2P 147894-29-9P 147932-13-6P

RU: SPN (Synthetic preparation); PREP (Preparation)

RN 147894-06-2 CAPLUS
Pyrazinecarboxamide, 3-amino-5-(4-(4-amino-6,7-dimethoxy-2-quinazolinyl)-1-piperazinyl)-N-(aminomethyl)-6-chloro-, dihydrochloride (9CI) (CA INDEX NAME)



RN 147894-29-9 CAPLUS
Pyrazinecarboxamide, 3-amino-5-[(2-(4-amino-6,7-dimethoxy-2-quinazolinyl)amino)ethyl]amino-N-(aminomethyl)-6-chloro-, dihydrochloride (9CI) (CA INDEX NAME)

● 2 HCl

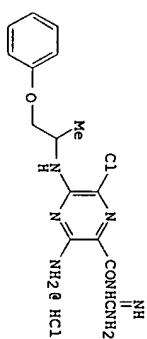
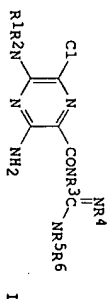
CN(C)C(=O)Nc1nc(Cl)c(N2CCN(CC2)c3nc4c(ncn3COC)c5c4OC)c5)c1

● 2 HCl

L10 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
 1993:040831 CAPLUS
 119:831
 Preparation of 2-quinidinocarbonyl-3,5-diamino-6-
 chloropyrazine as drugs
 Kloepper, Herbert; Speck, Georg; Stockhaus, Klaus
 Boehringer Ingelheim KG, Germany
 Ger. Offen.. 19 pp.
 CODEN: GMAXBK
 Patent
 Patent
 German
 2

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4127026	A1	19930218	DE 1991-4127026	19910816
WO 9304048	A1	19930304	WO 1992-EP1738	19920731
W: AT, AU, BB, BG, BR, CA, CH, CS, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MG, MN, NL, NO, PL, RO, RU, SD, SE, US				

OTHER SOURCE(S): MARPAT 119:8831
GI

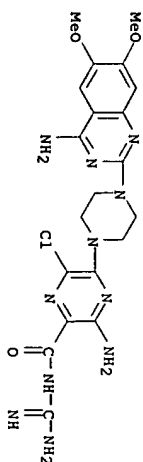


II

AB Title compound. (I): R1 = H, alkyl; R2 = morpholino, (substituted alkyl), 4-piperidinyl, amido; R3R4 = (substituted) piperidinyl, piperazinyl, R3-R6 = H, alkyl, (PCr2), effective inhibitors of Na⁺/H⁺ and Na⁺/Li⁺ exchange useful as antihypertensives, mucolytics, diuretics, neoplasia inhibitors, and platelet activating factor antagonists (no data), are prepared. Thus, the 3-amino-5,6-dichloropyrazine-2-carboxylate, 5,6-diamino-1-(2,6-dimethylphenoxy)propane, and Et3N were heated in DMF at 95-100° for 1.5 h to give the 3-amino-6-chloro-5-(12-1)-(12,6-dimethylphenoxy)pyrazinamido)pyrazine-2-carboxylate. This was heated with guanidine in MeOH to give title compound II.

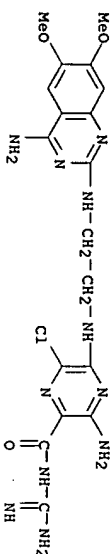
17 147894-06-2P 147894-29-9P 147932-13-6P

R1: BAC (Biological activity or effector, except adre); BSU (Biological study; unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BOL (Biological study); PREP (Preparation); USES (Uses)
 (Preparation of, as drug)
 147894-06-2 CAPUS
 Pyrazinehexamethoxy-, 3-amino-5-(4-(4-amino-6,7-dimethoxy-2-quinazolinyl)-1-piperazinyl)-N-(aminoiminoethyl)-6-chloro-, dihydrochloride (9CI) (CA INDEX NAME)



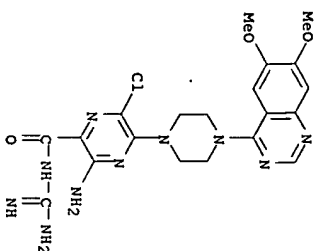
● 2 HCl

RN 147932-13-6 CAPLUS
CN Pyrazinecarbonylamide, 3-amino-5-[(2-((4-amino-6,7-dimethoxy-2-quinazolinyl)amino)ethyl)amino]-N-(aminomethyl)-6-chloro-2-dimethoxy-4-quinazolinyl]-1-piperazinyl] (CA INDEX NAME)



● 2 HCl

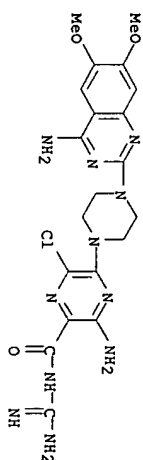
RN 147932-13-6 CAPLUS
CN Pyrazinecarbonylamide, 3-amino-5-[(2-((4-amino-6,7-dimethoxy-2-quinazolinyl)amino)ethyl)amino]-N-(aminomethyl)-6-chloro-2-dimethoxy-4-quinazolinyl]-1-piperazinyl] (CA INDEX NAME)



● 2 HCl

RN 147932-29-4 CAPLUS

CN Pyrazinecarbonylamide, 3-amino-5-[(2-((4-amino-6,7-dimethoxy-2-quinazolinyl)amino)ethyl)amino]-N-(aminomethyl)-6-chloro-2-dimethoxy-4-quinazolinyl]-1-piperazinyl] (CA INDEX NAME)



L10 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1967:37949 CAPLUS

DOCUMENT NUMBER: 66:37949

TITLE: Pyrazinoylguanidines

PATENT ASSIGNEE(S): Merck and Co., Inc.

SOURCE: Nech. Appl., 17 pp.

DOCUMENT TYPE: CODEN: NMXNAN

LANGUAGE: Patent

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION: Dutch

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
NL 6504569			NL 1965-4369	
FR 1479232		1961010	FR	19650409
FR 4498			FR	

OTHER SOURCE(S): MARPAT 66:37949

GI For diagram(s), see printed CA Issue.

AB The title compds. I (X = halogen; R1-4 = H or alkyl) are prepared by

reaction of 3-(NR3-substituted)-6-(X-substituted)-pyrazine-2-carboxylic acid esters (II) with guanidines H2NC-(NR2)NR3R4 (III). Thus, through

1.5 g. 3-(methylamino)-pyrazine-2-carboxylic acid in 250 ml. MeOH was

passed HCl gas, the solution evaporated, neutralized with NaHCO3 solution,

treated

with 0.5 cc. Br, and filtered to obtain 1.7 g. Me ester of

3-(methylamino)-6-bromopyrazine-2-carboxylic acid (IV), m.

181.5-3.5° (iso-PtOH). Na (0.69 g.) was dissolved in 90 ml. MeOH; to

the cold solution 3.01 g. dry powdered guanidine-HCl was added and the mixture

refluxed 30 min. and filtered; to the filtrate 2 g. IV was added to give

1.1 g. [3-(methylamino)-6-bromo-2-pyrazinoyl]-guanidine, m.

230.5-1.5°. To 23 g. Me ester of 3-amino-6-bromopyrazine-2-

carboxylic acid in 40 cc. AcOH and 114 cc. 48% HBr at 5-10° a solution

of 15 cc. Br in 40 cc. AcOH was added and the mixture treated at 0-5°

with 17.4 g. NaNO2 in 30 cc. H2O in 1.5 hrs. To this stirred mixture at

20° 200 ml. 10N NaOH and saturated NaHSO3 solution was added to give 17.4

g. Me ester of 3,6-dibromopyrazine-2-carboxylic acid (V), m. 66-8°

(aqueous EtOH). V (6 g.) and piperidine 30 min. at 25° gave the

3-piperidino derivative of V, m. 88-9°; its guanidino derivative m.

220-2°. Me2NH (15 g.) and 6 g. V gave the 3-Me2N derivative of V, m.

105-8°; its guanidino derivative m. 216-18°. The Me ester of

3-bromo-6-chloropyrazine-2-carboxylic acid, m. 35-6° gave the

3-[2-(dimethylamino)ethylamino] derivative, m. 105-8°; its guanidino

derivative m. 221-13°. Ethylenedis[3-(3-amino-6-chloro-2-

pyrazinoyl)guanidine]-2HCl, m. 323°. Treatment of

β-amino-6-chloro-2-pyrazinoyl)guanidine with AcCl gave the

2,3-diacylguanidine derivative, m. 187.5-8.5°; the analogous

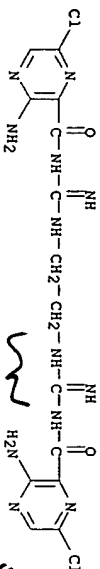
2,3-di-Bz derivative m. 215-17°. (TABLE OMITTED) Other I (R = R1 = H)

given in the table were prepared. The compds. are diuretics.

13301-07-OP

IT

RU: SPN (Synthetic preparation); PREP (Preparation)
(Preparation of)
RN 13301-07-0 CAPLUS
CN Pyrazinecarboxamide, N,N'-[ethylenebis[iminoimidocarbonyl]]bis[3-amino-6-chloro-, dihydrochloride (8CI) (CA INDEX NAME)]



● 2 HCl
NOT IN CL 82 (GIVE INDEPENDENT CL.)
NOT REPERMITTED
7- (A) AS A
LINKER

I10 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1967:10961 CAPLUS
DOCUMENT NUMBER: 66:10961
TITLE: Pyrazinoylguanidines
INVENTOR(S): Cragoe, Edward J., Jr.; Southwick, Philip L.
PATENT ASSIGNEE(S): Merck and Co., Inc.
SOURCE: Belg., 25 pp.
CODEN: BEXXAL
DOCUMENT TYPE: Patent
LANGUAGE: French
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
BE 662507		19651004		
GB 1095792			GB	19631223
US 3240780		19660315	US 1963-332901	19631223

PRIORITY APPL. INFO: 19631223
GI For diagram(s), see printed CA issue.
AB Pyrazinoylguanidines. (I) having diuretic and natriuretic properties are prepared. Thus, 1.5 g. 3-methylamino-2-pyrazinoyl-3-benzylguanidine, -1- treated with gaseous HCl until saturation, the solution refluxed 2 hrs. and evaporated

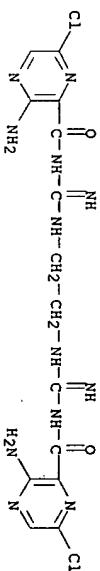
to dryness, saturated NaHCO₃ aqueous solution added until pH 7 is reached, and 0.5 ml. Br added to give 1.7 g. Me 3-methylamino-6-bromopyrazinoyl (III), m. 181.5-3.5 (iso-PROH). Na (0.69 g.) is dissolved in 90 ml. MeOH, 3.02 g. guanidine hydrochloride added, the solution refluxed 30 min., precipitated

NaCl filtered off, 2 g. III added, and the mixture heated for a short period and kept 1 hr. at room temperature to give 1.1 g. IV. The following comds. are

similarly prepared (m.p. given): Me 3,6-dibromopyrazinoyl, 66-8°; Me 3,6-dibromo-6-bromopyrazinoyl, 88-90°; Me 3,6-dimethylamino-6-bromopyrazinoyl, 80-2°; Me 3-bromo-6-chloropyrazinoyl, 35-6°; Me 3-(2-dimethylaminoethylamino)-6-chloropyrazinoyl, 105-8°; ethylenebis[3-(3-amino-6-chloro-2-pyrazinoyl)guanidine], (HCl salt m. 323°); 1-(3-amino-6-chloropyrazinoyl)-2,3-diacetylguanidine, -1-; 1-(3-amino-6-chloropyrazinoyl)-2,3-dibenzoylguanidine, 215-17°; 1-(3-methylamino-6-trifluoromethylpyrazinoyl)-3-benzylguanidine, -1-; 1-(3-amino-6-trifluoromethylpyrazinoyl)-2,3-diacetylguanidine, -1-; 1-(3-amino-6-trifluoromethylpyrazinoyl)-3,3-dimethylguanidine, -1-; Similarly prepared were the tabulated I. (TABLE OMITTED)

IT 13301-07-0P

RU: SPN (Synthetic preparation); PREP (Preparation)
(Preparation of)
RN 13301-07-0 CAPLUS
CN Pyrazinecarboxamide, N,N'-[ethylenebis[iminoimidocarbonyl]]bis[3-amino-6-chloro-, dihydrochloride (8CI) (CA INDEX NAME)]

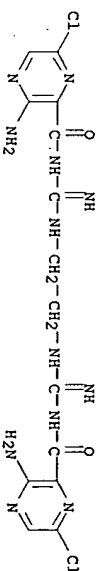


● 2 HCl

I10 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1965:463090 CAPLUS
DOCUMENT NUMBER: 63:63090
ORIGINAL REFERENCE NO.: 63:11561-f
TITLE: Pyrazine diuretics. I. N-amidino-3-amino-6-halopyrazinecarboxamides.
AUTHOR(S): Bickling, John B.; Mason, James W.; Woltersdorf, Otto W., Jr.; Jones, James H.; Kwong, Sara F.; Robb, Charles M.; Cragoe, Edward J., Jr.
CORPORATE SOURCE: Merck & Co., Inc., West Point, PA
SOURCE: Journal of Medicinal Chemistry (1965), 8(5), 638-42
CODEN: JMCVAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
CASREACT: 63:63090

AB A series of N-amidino-3-amino-6-halopyrazinecarboxamides was prepared principally by the reaction of Me 3-amino-6-halopyrazinecarboxylates with guanidine or substituted guanidines. A number of these comds. reverse the electrolyte excretion effects of deoxycorticosterone in the adrenalectomized rat and cause natriuresis in the intact rat and dog while leaving unaffected or even repressing K⁺ excretion.
IT 96878-31-8, Pyrazinecarboxamide, N,N'-[ethylenebis[iminoimidocarbonyl]]bis[3-amino-6-chloro-, dihydrochloride (8CI) (CA INDEX NAME)]

RN 96878-31-8 CAPLUS
CN Pyrazinecarboxamide, N,N'-[ethylenebis[iminoimidocarbonyl]]bis[3-amino-6-chloro-, dihydrochloride (7CI) (CA INDEX NAME)]



● x HCl

⇒ LOG HOLD COST IN U.S. DOLLARS SINCE FILE TOTAL

∴ NO PRIOR ART.

FULL ESTIMATED COST	ENTRY	SESSION
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	56.67	557.70
CA SUBSCRIBER PRICE	SINCE FILE ENTRY	TOTAL SESSION
	-8.25	-8.25

SESSION WILL BE HELD FOR 60 MINUTES
STN INTERNATIONAL SESSION SUSPENDED AT 08:40:33 ON 11 OCT 2006